

	Hits	Search Text	DBs
1	0	(annexin adj (31! or XXI)) or ANX31	USPAT; US-PGPUB; EPO; JPO; DERWENT
2	0	annexin near10 array	USPAT; US-PGPUB; EPO; JPO; DERWENT
3	334	annexin and array	USPAT; US-PGPUB; EPO; JPO; DERWENT
4	65	annexin.ti.	USPAT; US-PGPUB; EPO; JPO; DERWENT
5	0	annexin.ti. and array.ab.	USPAT; US-PGPUB; EPO; JPO; DERWENT
6	4	annexin.ab. and array.ab.	USPAT; US-PGPUB; EPO; JPO; DERWENT
7	3	annexin.ab. and microarray	USPAT; US-PGPUB; EPO; JPO; DERWENT
8	153	annexin and microarray	USPAT; US-PGPUB; EPO; JPO; DERWENT
9	479	affymetrix.as.	USPAT; US-PGPUB; EPO; JPO; DERWENT
10	21	affymetrix.as. and (expression adj pattern)	USPAT; US-PGPUB; EPO; JPO; DERWENT

L2 ANSWER 1 OF 2 MEDLINE DUPLICATE 1  
ACCESSION NUMBER: 1999132313 MEDLINE  
DOCUMENT NUMBER: 99132313 PubMed ID: 9931420  
TITLE: Human annexin 31 genetic mapping and origin.  
AUTHOR: Morgan R O; Bell D W; Testa J R; Fernandez M P  
CORPORATE SOURCE: Department of Biochemistry and Molecular Biology, Faculty of Medicine, University of Oviedo, E-33006, Oviedo, Spain.. mpff@warf1.quimica.uniovi.es  
CONTRACT NUMBER: CA-06927 (NCI)  
SOURCE: GENE, (1999 Feb 4) 227 (1) 33-8.  
Journal code: 7706761. ISSN: 0378-1119.  
PUB. COUNTRY: Netherlands  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199904  
ENTRY DATE: Entered STN: 19990420  
Last Updated on STN: 19990420  
Entered Medline: 19990402

AB The cDNA encoding novel human annexin 31 was utilized for chromosomal mapping, structural comparison, and phylogenetic analysis to clarify its genetic relationship to other annexins. The ANX31 gene locus was mapped by fluorescence in situ hybridization to human chromosome 1q21, remote from ten other paralogous human annexins on different chromosomes but near the epidermal differentiation gene complex, the S100A gene cluster and a breast-cancer translocation region. Protein homology testing and characterization of incompletely processed expressed sequence tags identified annexin 2 as the closest extant homologue. Maximum likelihood analysis confirmed its most recent common ancestor with vertebrate annexin 2 and validated its classification, in order of discovery, as annexin 31. This subfamily was formed approx. 500-600millionyears ago, subsequent to the gene duplication that produced annexin 1. It has diverged relatively rapidly and extensively, and specifically in the well-conserved, functionally critical type II calcium-binding sites.

L2 ANSWER 2 OF 2 MEDLINE DUPLICATE 2  
ACCESSION NUMBER: 1998413874 MEDLINE  
DOCUMENT NUMBER: 98413874 PubMed ID: 9742942  
TITLE: Expression profile and structural divergence of novel human annexin 31.  
AUTHOR: Morgan R O; Fernandez M P  
CORPORATE SOURCE: Department of Biochemistry and Molecular Biology, Faculty of Medicine, University of Oviedo, Spain.  
SOURCE: FEBS LETTERS, (1998 Sep 4) 434 (3) 300-4.  
Journal code: 0155157. ISSN: 0014-5793.  
PUB. COUNTRY: Netherlands  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
OTHER SOURCE: GENBANK-AJ009985  
ENTRY MONTH: 199810  
ENTRY DATE: Entered STN: 19981020  
Last Updated on STN: 19981020  
Entered Medline: 19981008

AB Systematic analysis of expressed sequence tags in dbEST yielded an expression profile of the ten known human annexins and led to the discovery of a novel subfamily expressed mainly in differentiating tissues. Full-length cDNAs encoded a 338-amino acid protein with less than 40% identity to other annexins, an atypical amino acid composition, and an insertion and deletion in internal repeat 3. The most striking feature was a complete ablation of all four type II calcium-binding sites in the conserved tetrad core. Annexin 31 thus constitutes a unique, natural probe for investigating the role of membrane binding in annexin function.

10/018,170 SEARCH RESULTS/HISTORY

(FILE 'HOME' ENTERED AT 16:15:35 ON 02 JAN 2003)

FILE 'MEDLINE, AGRICOLA, CAPLUS, BIOSIS, EMBASE, WPIDS' ENTERED AT  
16:15:41 ON 02 JAN 2003

L1 8 S (ANNEXIN (W) (31 OR XXX1)) OR ANX31  
L2 2 DUP REM L1 (6 DUPLICATES REMOVED)

=>

STIC-ILL

QH442.643

**From:** Steadman, David (AU1652)  
**Sent:** Thursday, January 02, 2003 8:47 AM  
**To:** STIC-ILL  
**Subject:** 10/018,170 literature request

Art Unit: 1652  
Office: 10D-04  
Mailbox: 10D-01  
Case Serial #: 10/018,170

Please provide the following references:

1) Gene 1999 Feb 4;227(1):33-8  
Human annexin 31 genetic mapping and origin.  
Morgan RO, Bell DW, Testa JR, Fernandez MP.

2) FEBS Lett 1998 Sep 4;434(3):300-4  
Expression profile and structural divergence of novel human annexin 31.  
Morgan RO, Fernandez MP.

Thank you,  
David J. Steadman  
Art Unit 1652  
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10/12

From: Steadman, David (AU1652)  
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426173

Art Unit: 1652  
Office: 10D-04  
Mailbox: 10D-01  
Case Serial #: 10/018,170

Please provide the following references:

- 1) Nguyen, V.T., Buchli, R., Ndoeye, A. and Grando, S.A.  
Molecular cloning and partial characterization of novel keratinocyte annexin-like molecule identified by pemphigus vulgaris antibodies  
J. Dermatol. Sci. 16(Suppl) (1), S14 (1998)
- 2) Nguyen, V.T., Buchli, R., Ndoeye, A. and Grando, S.A.  
Molecular cloning and partial characterization of novel keratinocyte annexin-like molecule identified by pemphigus vulgaris antibodies  
J. Invest. Dermatol. 110 (4), 486 (1998)

Thank you,  
David J. Steadman  
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RL 1. J8

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Sent: Thursday, January 02, 2003 8:29 AM  
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Subject: literature request for 10/018,170

Art Unit: 1652  
Office: 10D-04  
Mailbox: 10D-01  
Case Serial #:10/018,170

Please provide the following references:

- 1) Nguyen,V.T., Buchli,R., Ndoye,A. and Grando,S.A.  
Molecular cloning and partial characterization of novel keratinocyte annexin-like molecule identified by pemphigus vulgaris antibodies  
J. Dermatol. Sci. 16(Suppl) (1), S14 (1998)
- 2) Nguyen,V.T., Buchli,R., Ndoye,A. and Grando,S.A.  
Molecular cloning and partial characterization of novel keratinocyte annexin-like molecule identified by pemphigus vulgaris antibodies  
J. Invest. Dermatol. 110 (4), 486 (1998)

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